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Patent claims

- Process for preparing trichlorosilane by reacting silicon with silicon tetrachloride, hydrogen and optionally hydrogen chloride using catalysts, characterized in that silicon is intensively mixed with the catalyst before the reaction.
- Process according to Claim 1, characterized in that the mixing of the silicon with the catalyst takes place in a mixer with rotating mixing tools.
- Process according to Claim 1 or 2, characterized in that the mixing time is 1 to 60 minutes, preferably 5 to 20 minutes.
- Process according to Claims 1 to 3, characterized in that the catalyst used is a copper catalyst or an iron catalyst.
- Process according to Claim 4, characterized in that the catalyst used is a copper oxide catalyst or an iron oxide catalyst.
- Process according to Claims 1 to 5, characterized in that the mixing of silicon and catalyst takes place at a temperature of from 100 to 400°C, preferably at 130 to 350°C.
- Process according to Claims 1 to 6, characterized in that the mixing of silicon
 and catalyst takes place in the presence of hydrogen.
 - Process according to at least one of Claims 1 to 7, characterized in that the reaction is carried out at a pressure of from 1 to 40 bar (absolute).
- Process according to at least one of Claims 1 to 8, characterized in that the reaction is carried out at temperatures of from 400 to 800°C.

 Process for preparing silane and/or ultrapure silicon, characterized in that the starting material is trichlorosilane obtained according to at least one of Claims 1 to 9.